

Patent Claims

1. A fixing device with at least one guide (5a, 5b) for at least one securing element (6).

2. A fixing device as set forth in claim 1, wherein said fixing device comprises a shaft (2) and a head (3).

3. A fixing device as set forth in claim 2, wherein said shaft (2) comprises an operative section (2a) and an intermediate section (2b).

4. A fixing device as set forth in claim 3, wherein the diameter of said intermediate section (2b) is larger than the diameter of said operative section (2a).

5. A fixing device as set forth in any one of the preceding claims, wherein said guide is formed as a bore (5a) and/or as a recess (5b).

6. A device as set forth in any one of the preceding claims, wherein two, three or more guides (5) are formed in said fixing device.

7. A fixing device as set forth in any one of the above claims, wherein said fixing device comprises a section provided with a screw thread.

8. A fixing device as set forth in any one of the preceding claims, wherein said fixing device comprises a section formed as a nail and/or a section with edges running approximately parallel to the direction of insertion.

9. A fixing device as set forth in any one of the preceding claims, wherein said fixing device comprises an element (4) tapered at its lower end.

10. A fixing device as set forth in any one of the preceding claims, wherein said fixing device comprises a connecting element or a recess (3a), wherein tools can be positioned or devices (10, 11) can be attached.

5 11. A fixing system comprising a fixing device (1) as set forth in any one of claims 1 to 10 and at least one securing element (6) at least partially inserted into said guide (5a, 5b).

10 12. A fixing system as set forth in claim 11, wherein said securing element (6) comprises a section (7a) provided with a thread and/or comprising a section (7b) comprising a substantially smooth surface and/or a head (8).

15 13. A fixing system as set forth in claim 11 or 12, wherein said guide (5a, 5d) of said fixing device (1) and said securing element (6) are formed in such a way that said securing element (6) inserted into said fixing device (1) exhibits substantially no play.

20 14. A positioning system comprising a fixing system (1, 6) as set forth in any one of claims 11 to 13 and a positioning element (11) fixed to it.

25 15. A positioning system as set forth in claim 14, wherein said positioning element (11) is fixed to said fixing system (1, 6) by means of an adjustable aligning device (10).

30 16. A positioning system as set forth in any one of claims 14 or 15, wherein said positioning element is a reference star (11).

17. A fixing device comprising at least two guides (23a, 23b).

30 18. A fixing device as set forth in claim 17, wherein at least one determining element (22) is provided for producing a frictional connection between at least one element guided in one of the guides (23a, 23b).

19. A fixing device as set forth in any one of claims 17 or 18, wherein at least one fixing section, in particular a recess (21a), is provided in the fixing device (21), in particular for attaching a positioning element (11).

5 20. A fixing system comprising a fixing device as set forth in any one of claims 17 to 19, and elements guided in the guides (23a, 23b), in particular Kirschner wires or Schanz screws.

10 21. A positioning system comprising a fixing system as set forth in claim 20 and a positioning element (11) fixed to it and/or an adjustable aligning device (10).